

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

REVISED	STATE	FEDERAL AID	STATE		SHEET NO.
		PROJECT	ROUTE	PROJECT	
NEW 7/17/08	VA.		7		20

1. ALL COMMUNICATION CONDUIT WORK SHOWN ON THESE UTILITY RELOCATION PLANS ARE BEING CONSTRUCTED FOR USE OF VERIZON,RCYIPES,LEVEL 3,XO,WC/ VERIZON BUSSINESS (COMMUNICATION COMPANIES),THE CONTRACTOR MAY CONSULT WITH THEIR REPRESENTATIVES AT THE FOLLOWING PHONE NUMBERS TO OBTAIN ADDITIONAL TECHNICAL INFORMATION;

RGCYIPES: JAMES HOOFNAGLE - (202) 216-7865
TONY MACK [MACK COMM.] - (703) 867-1741

LEVEL 3: JODY WILLIAMS - (703) 673-7520

MCI / VERIZON BUSINESS: ADAM RICE - (571) 220-8978

2. LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY BE INCOMPLETE. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF UTILITIES WITH TEST HOLES AND/OR OTHER METHODS. TEST HOLES, TEST PITS, OR OTHER METHODS TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES IS INCIDENTAL TO THE WORK AND SHALL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.
3. THE CONTRACTOR SHALL PLAN AND SCHEDULE ALL CONTRACT WORK TO ACCOMMODATE THE LOCATION OF ALL EXISTING OVERHEAD COMMUNICATION LINES AND UNDERGROUND DUCT BANKS OF THE COMMUNICATION COMPANIES. THE CONTRACTOR SHALL ARRANGE FOR ANY REQUIRED TEMPORARY OUTAGES TO ACCOMMODATE THE CONTRACTOR'S WORK. SHOULD THE CONTRACTOR WISH TO TEMPORARILY RELOCATE ANY OF THE COMMUNICATION COMPANIES FACILITIES, IT SHALL BE DONE SOLELY AT THE CONTRACTOR'S EXPENSE. ANY REQUESTS FOR TEMPORARY UTILITY RELOCATIONS, SHALL BE SUBMITTED IN WRITING TO THE ENGINEER 30 DAYS IN ADVANCE OF ANY WORK COMMENCING TO RELOCATE FACILITIES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY COORDINATE ANY REQUESTED OUTAGES AND/OR TEMPORARY RELOCATIONS WITH AFFECTED PARTIES.
4. THE COST FOR DUCT BANK SHALL INCLUDE BUT NOT BE LIMITED TO (AMONG OTHER ITEMS LISTED IN THE SPECIAL PROVISIONS) SAWCUTTING, DEMOLITION, REMOVAL, DISPOSAL AND RESTORATION OF CURBS, SIDEWALKS, TRAILS AND PAVEMENT STRUCTURES (FLEXIBLE AND RIGID) WITHIN THE LIMITS AND TYPES SHOWN ON THE PLAN.
5. THE COMMUNICATION COMPANIES SHALL PROVIDE THE CONTRACTOR 30 INCH FRAME AND COVERS FOR ALL PROPOSED VAULTS, BALL MARKERS FOR TERMINAL RUNS, HANDHOLES AND PEDESTALS. THE CONTRACTOR SHALL ALLOW 30 DAYS LEAD TIME TO ORDER AND OBTAIN FRAME AND COVERS, MARKERS, HANDHOLES AND PEDESTALS FROM THE COMMUNICATION COMPANIES. COST TO INSTALL AND OBTAIN FRAME AND COVER, BALL MARKERS, HANDHOLES AND PEDESTALS, SHALL BE INCLUDED IN THE BID PRICE FOR THE COMMUNICATION VAULT. SEE COMMUNICATION DUCT BANK SPECIAL PROVISION.
6. ALL VAULTS ARE TO BE CONSTRUCTED TO SUPPORT VEHICLE TRAFFIC. ALL VAULTS ARE TO HAVE 30" FRAME AND COVER TO MEET THIS RATING. AN 8" BED OF 2-1A IS TO BE PLACED IN THE BOTTOM OF THE EXCAVATION HOLES PRIOR TO SETTING THE VAULTS. ALL PRECAST CONCRETE VAULTS AND HANDHOLES ARE TO BE SET SO THE FRAME AND COVER IS FLUSH WITH THE FINAL GRADE SURFACE. A PRECAST OR FIELD CONSTRUCTED RISER IS TO BE INSTALLED BETWEEN THE FRAME AND COVER AND THE TOP OF VAULTS. THE MINIMUM RISER HEIGHT SHALL BE 12" WITH A MAXIMUM OF 48". THIS RISER HEIGHT IS ADJUSTABLE WITHIN THE RANGE GIVEN TO COMPENSATE FOR THE SETTING DEPTH OF THE VAULT AS INSTALLED. GROUND RODS AND HARDWARE SHALL ALSO BE INSTALLED IN EACH VAULT IN ACCORDANCE WITH THE ATTACHED DRAWINGS AND THESE GENERAL NOTES (SEE NOTE). CONDUITS ENTERING OR EXITING VAULTS OR HANDHOLES ARE TO BE FITTED WITH BELL ENDS, GROUTED AND PLUGGED OR CAPPED. BELL ENDS ARE TO BE INSTALLED ON CONDUIT AT THE POINT WHERE IT ENTERS A VAULT. THE BELL ENDS SHALL BE FLUSH WITH THE INTERIOR WALL AND THE WALL SHALL BE PARGE. ALL EXCESS CONCRETE SHALL BE REMOVED. WHEN CONSTRUCTION OF THE CONDUIT LINE IS COMPLETE, ALL CONDUIT SHALL BE RODDED WITH A MANDREL HAVING A DIAMETER OF 1/4" LESS THAN BORE DIAMETER OF THE CONDUIT AND WILL THEN BE BRUSHED WITH A STIFF WIRE BRUSH. "POLYOLEFIN", 1000 POUNDS STRESS PULL ROPES WILL THEN BE INSTALLED IN EACH OF THE CONDUITS TO ACCOMMODATE THE CABLE PULLING.
7. ALL TRENCH EXCAVATION SHALL INCLUDE REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL OFFSITE AT NO ADDITIONAL COST TO THE DEPARTMENT. TRENCH BACKFILL SHALL CONSIST OF SUITABLE REGULAR BACKFILL AS DETERMINED BY THE ENGINEER. TRENCH BACKFILL MATERIAL SHALL BE OBTAINED FROM THE SUITABLE MATERIAL REMOVED FROM THE TRENCH OR OBTAINED FROM OTHER EXCAVATION ITEMS INCLUDED ON THE PROJECT. EXCESS SUITABLE MATERIAL OBTAINED FROM TRENCH EXCAVATION ACTIVITIES SHALL BE STOCKPILED AT NO ADDITIONAL COST TO THE COUNTY. DEBRIS, SUCH AS ROCKS, PIECES OF WOOD, BRUSH AND OTHER SIMILAR MATERIALS, SHALL NOT BE BACKFILLED INTO TRENCHES. THE TRENCH DEPTH AND THE LEVEL OF CONDUITS SHALL BE CONSTRUCTED AS SHOWN ON THE PROFILES WITH MINIMUM COVER OF 30 INCHES FROM FINAL GRADE TO THE TOP OF THE CONCRETE ENCASEMENT FOR PRIMARY APPLICATIONS. THE MINIMUM COVER SHALL BE 42 INCHES FOR ALL CONDUIT SYSTEMS WITHIN VIRGINIA DEPARTMENT OF TRANSPORTATION HIGHWAY RIGHT-OF-WAY.

9. MARKING TAPE, PROVIDED BY THE COMMUNICATION COMPANIES, SHALL BE PLACED 12 INCHES BELOW FINAL GRADE FOR ALL DUCT BANKS AND CONDUIT BUNDLES.

PLAN NO.	PROJECT	FILE NO.	SHEET NO. 20
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• NOT A PAY ITEM.SEE NOTE 5 FOR DETAILS

IN PROGRESS 10/15/08
NOT FOR CONSTRUCTION



UTILITY RELOCATION PLAN GENERAL NOTES AND SUMMARY